Julius Lee Engineering

RE: 319200 - CHAMBERS CONT. - HOUSE A

1109 Coastal Bay Blvd. Boynton Beach, FL 33435

Site Information:

Project Customer: SCOTT ESPENSHIP - O/B Project Name: 319200 Model: HOUSE A

Lot/Block: TBD

Subdivision: RESERVE AT JEWEL LAKE

Address:

City: COLUMBIA CTY

State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name:

License #:

Address:

City:

State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2007/TPI2002

Design Program: MiTek 20/20 7.1

Wind Code: ASCE 7-05 Wind Speed: 110 mph

Floor Load: N/A psf

Roof Load: 32.0 psf

This package includes 5 individual, dated Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

This document processed per section 16G15-23.003 of the Florida Board of Professionals Rules

In the event of changes from Builder or E.O.R. additional coversheets and drawings may accompany this coversheet. The latest approval dates supersede and replace the previous drawings.

No.	Seal#	Truss Name	Date
1	14156857	T01	11/18/09
2	14156858	T01A	11/18/09
3	14156859	T01G	11/18/09
4	14156860	T02 •	11/18/09
5	14156861	T02G •	11/18/09



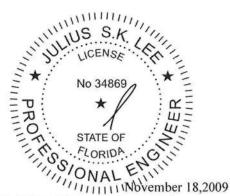


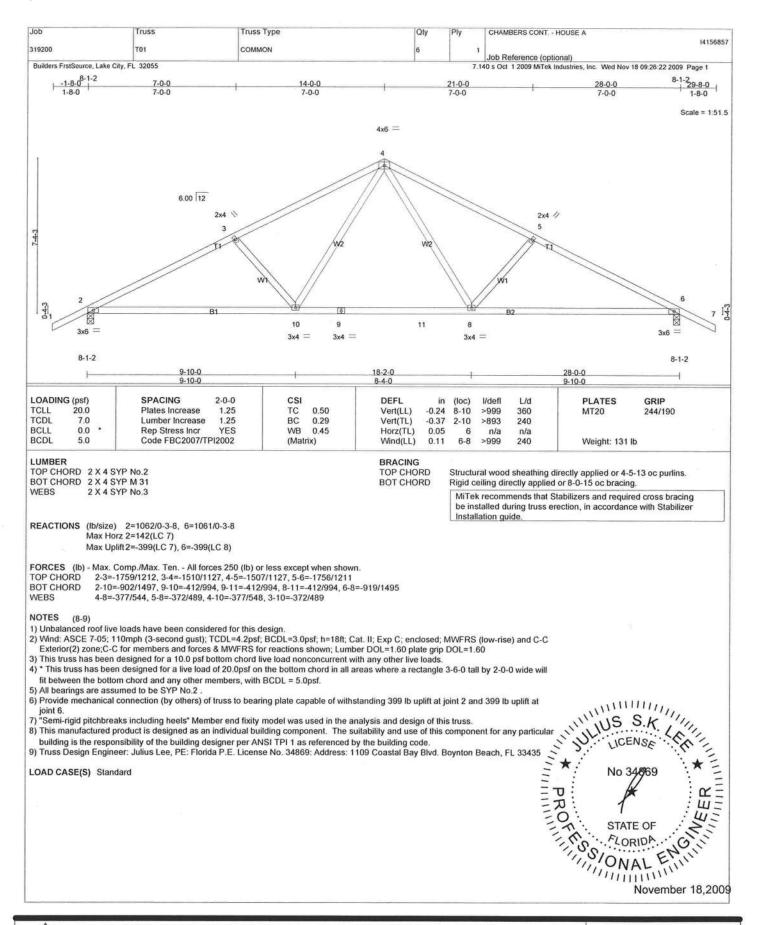
The truss drawing(s) referenced above have been prepared by MiTek Industries, Inc. under my direct supervision based on the parameters provided by Builders FirstSource (Lake City).

Truss Design Engineer's Name: Julius Lee

My license renewal date for the state of Florida is February 28, 2011.

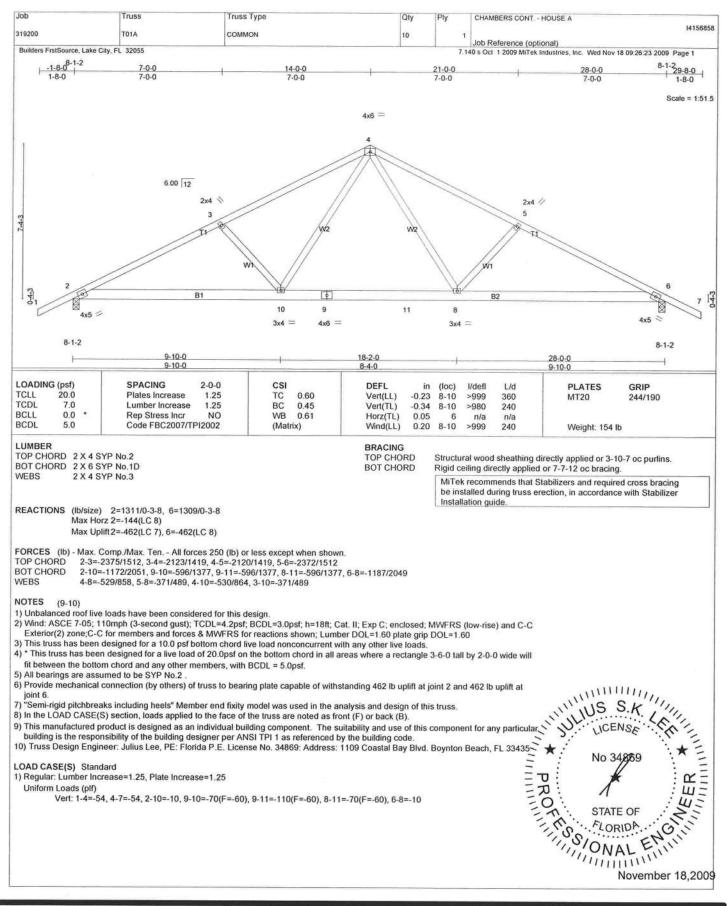
NOTE: The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI-1 Chapter 2.





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding labrication, quality control, storage, delivery, erection and bracing, consult. AMSI/TPI Quality Citleria, DSB-89 and BCS11 Building Component Sately Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



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Job Truss Truss Type Qty CHAMBERS CONT. + HOUSE A 14156859 319200 T01G GABLE Job Reference (optional)
7.140 s Oct 1 2009 MiTek Industries, Inc. Wed Nov 18 09:26:25 2009 Page 1 Builders FrstSource, Lake City, FL 32055 -1-8-0 8-1-2 29-8-0 1-8-0 14-0-0 Scale = 1:51.5 4x5 = 10 6.00 12 11 6 12 13 14 3v4 > 3x4 15 ST 16 17 14 5x7 5x7 || 28 27 26 25 23 22 21 20 19 18 3x4 = 5x6 = 3x4 = 8-1-2 28-0-0 28-0-0 Plate Offsets (X,Y): [2:0-3-8,Edge], [2:0-2-8,Edge], [16:0-3-8,Edge], [16:0-2-8,Edge], [24:0-3-0,0-3-0] LOADING (psf) SPACING DEFL (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plates Increase 1.25 TC 0.31 Vert(LL) -0.01 17 n/r 120 MT20 244/190 TCDI 70 Lumber Increase 1 25 BC 0.08 Vert(TL) -0.01 17 n/r 90 BCLL 0.0 Rep Stress Incr NO WB 0.12 Horz(TL) 0.02 16 n/a n/a BCDL 5.0 Code FBC2007/TPI2002 (Matrix) Weight: 161 lb LUMBER BRACING TOP CHORD 2 X 4 SYP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 2 X 4 SYP No.2 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. **OTHERS** 2 X 4 SYP No.3 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide REACTIONS All bearings 28-0-0. (lb) - Max Horz 2=158(LC 7) Max Uplift All uplift 100 lb or less at joint(s) except 2=-238(LC 7), 16=-263(LC 8), 24=-153(LC 7), 25=-152(LC 7) 26=-153(LC 7), 27=-139(LC 7), 28=-193(LC 7), 22=-150(LC 8), 21=-153(LC 8), 20=-153(LC 8), 19=-137(LC 8), 18=-200(LC 8) Max Grav All reactions 250 lb or less at joint(s) 23, 24, 25, 26, 27, 22, 21, 20, 19 except 2=316(LC 11), 16=316(LC 12), 28=288(LC 11), 18=288(LC 12) FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 8-9=-36/311, 9-10=-36/311 WEBS 4-28=-247/272, 14-18=-247/271 NOTES (13-14)1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-05; 110mph (3-second gust); TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide wilh fit between the bottom chord and any other members.
9) All bearings are assumed to be SYP No.2.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstandies.
11) "Some of the standard of the Noven MOIN 11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B). 13) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code. 14) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435 LOAD CASE(S) Standard November 18,2009 Continued on page 2

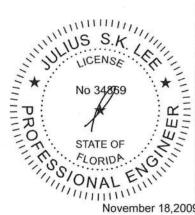
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component.
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Job	Truss	Truss Type	Qty	Ply	CHAMBERS CONT HOUSE A	20,000
319200	T01G	GABLE	2	1	A consuma or as or	14156859
Builders FrstSource, I	ake City, FL 32055			7:	Job Reference (optional) 140 s Oct 1 2009 MiTek Industries, Inc. Wed Nov 18 0	9 25 25 2009 Page 2

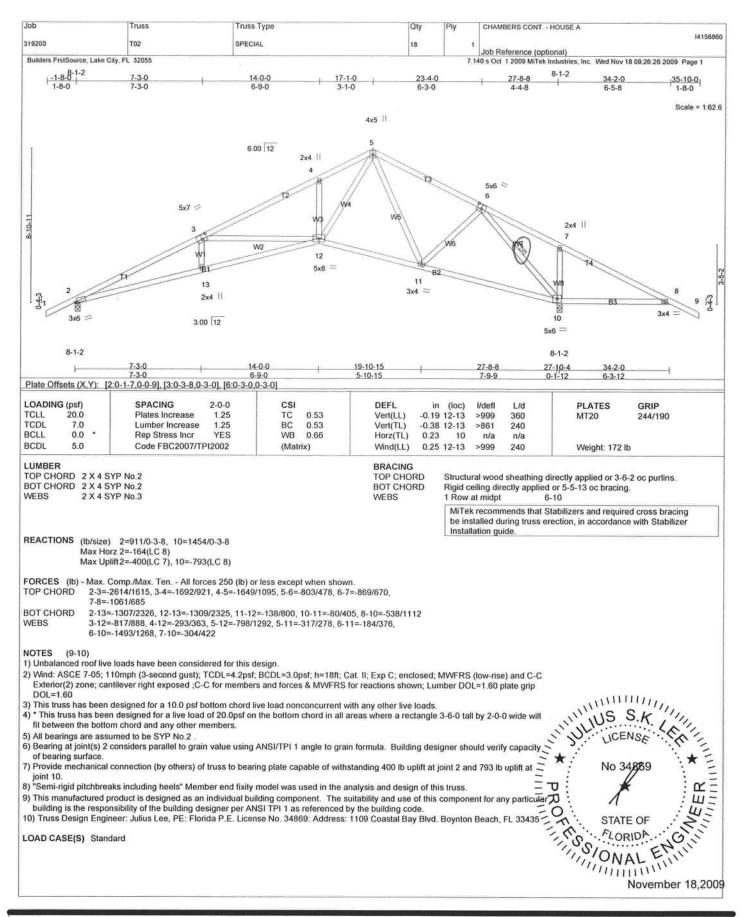
LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-9=-79(F=-25), 9-17=-79(F=-25), 2-16=-10



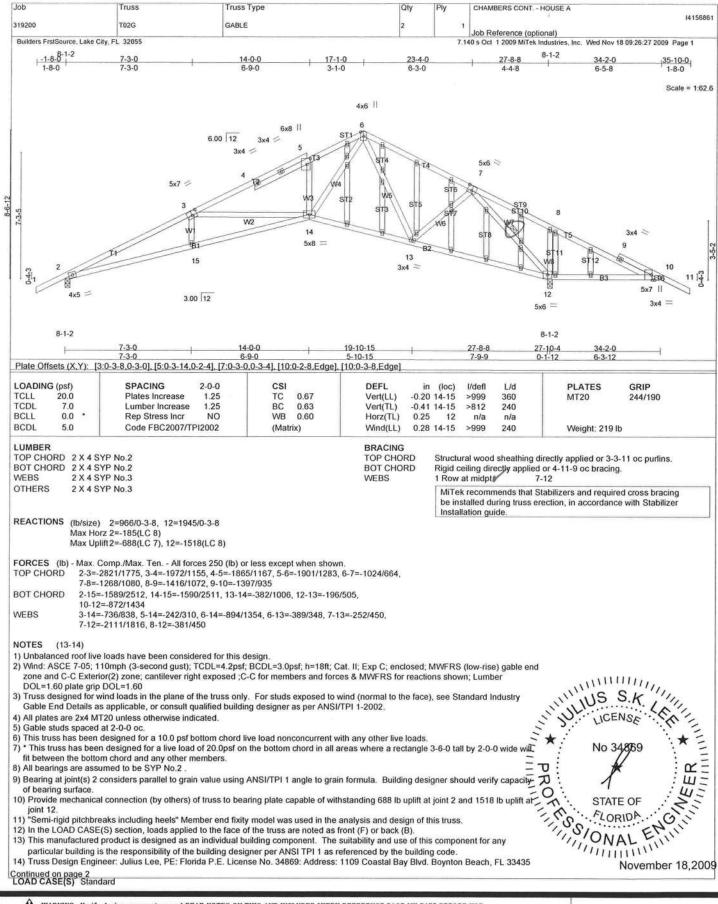
November 18,2009



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.

Design valid for use only with Milek connectors. This design is based only upon parameters shown, and is for an individual building component.

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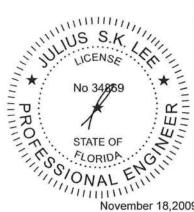
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Job	Truss	Truss Type	Qty	Ply	CHAMBERS CONT HOUSE A	
319200	T02G	GABLE	2			14156861
313200	1020	GABLE			Job Reference (optional)	
Builders FrstSource, Lake City,	FL 32055			7.1	10 s Oct 1 2009 MiTek Industries, Inc. Wed Nov 18 0	9-26-28 2009 Page 2

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-5=-54, 5-6=-79(F=-25), 6-11=-79(F=-25), 2-14=-10, 12-14=-10, 10-12=-10



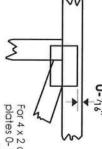
November 18,2009

Symbols

PLATE LOCATION AND ORIENTATION



and fully embed teeth Apply plates to both sides of truss Dimensions are in ft-in-sixteenths. offsets are indicated Center plate on joint unless x, y



plates 0- 1/1/1 from outside edge of truss. For 4 x 2 orientation, locate

connector plates. required direction of slots in This symbol indicates the

*Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 × 4

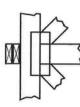
the length parallel to slots. to slots. Second dimension is width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T, I or Eliminator bracing if indicated.

BEARING



number where bearings occur reaction section indicates joint Indicates location where bearings (supports) occur. Icons vary but

ANSI/TPI1: Industry Standards:

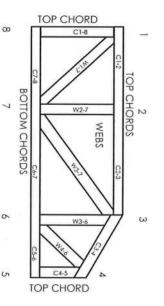
Plate Connected Wood Truss Construction. Design Standard for Bracing. National Design Specification for Metal

DSB-89

Installing & Bracing of Metal Plate Building Component Safety Information, Guide to Good Practice for Handling, Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



THE LEFT. JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO

NUMBERS/LETTERS CHORDS AND WEBS ARE IDENTIFIED BY END JOINT

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ER-5243, 9604B 9730, 95-43, 96-31, 9667A NER-487, NER-561 95110, 84-32, 96-67, ER-3907, 9432A

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Boynton, FL 33435 Julius Lee Engineering l 109 Coastal Bay Blvd

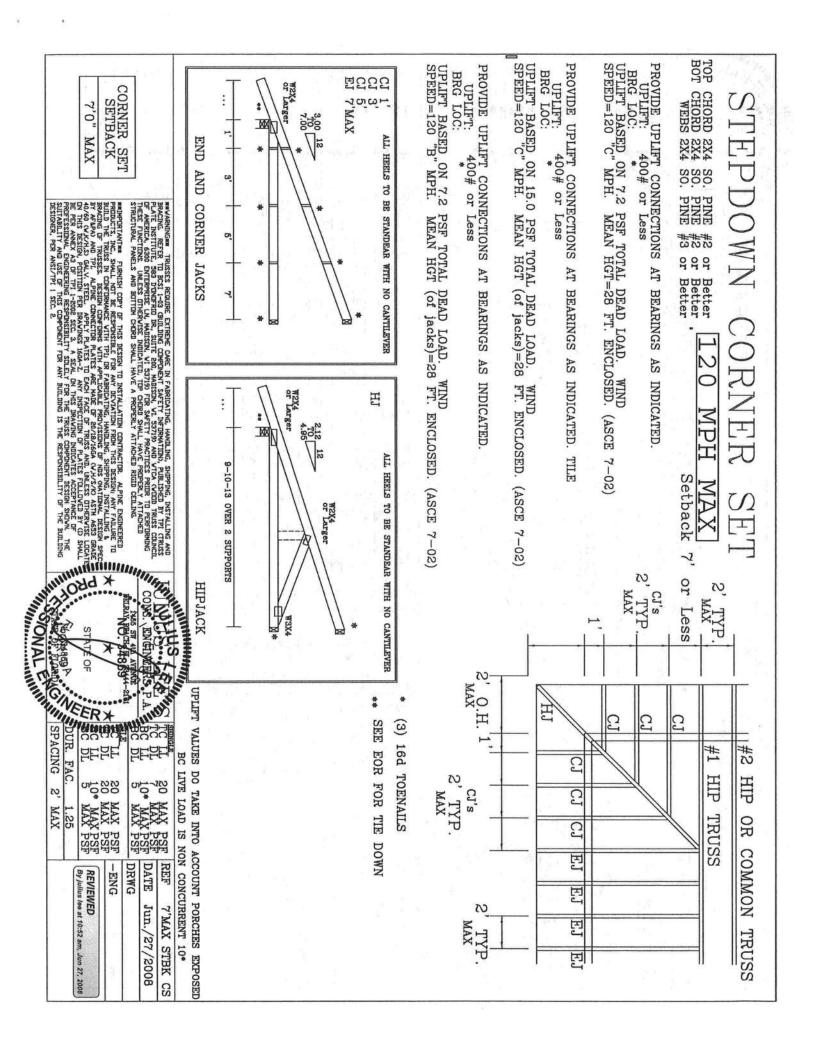
General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

S

- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss tabricator. General practice is to
- camber for dead load deflection.
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 14. Bottom chords require lateral bracing at 10 ft. spacing or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or after truss member or plate without prior approval of an engineer
- Install and load vertically unless indicated otherwise.
- Use of green or freated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria



ASCE 7-02: 130 MPH WIND SPEED, 30' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

MINIMINIAN X	WHINININ THE	TOTAL LEXICAL IS 14."	DIAGONAL HEAV DOUBLED WHEEL DOUBLED WHEEL DOUBLED WHEEL DOUBLE LEVEL LEVEL DIAGONAL HEAV DIAGONAL HE	M 12	G (C)	GAB C.	LE V	VERT	TICAI		NG'	SP4
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TATE OF WE By julius lee at 12:00 pm, Jun 11, 2008	AMMININI TER	HOWAY P		S. A.I.S.	STANDARD #2	L. C		STANDARD	SI A	STANDARD #2	TTT	GRADE
REVIEWE By julius lea	NONCIA TRUSSE IG. REPER TO 18 IN. REPER TO 18 INC. REPER TO 18		GARLE TRUBS	4 4 4		4 0	o (vi (vi (vi	2 2 2 4 2 2 5 6	1 1 1 1	4 0 B F,		BRACES
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LD. 60 PSF	¥): 1	GABIL VER	PUTMODD C ATLACE EACH ATLACE EACH POR (1) T IN 18" EN * FOR (2) T IN 18" EN * FOR (3) T	CABLE UPLI	CABLE	187	NATHINOS		STUD STANDARD	\$1 / \$2	BRACING	
	REF DATE	CABLE VERTICAL PLATE SIZES VERTICAL LENGTH ND SPIZOR LESS THAN 4' 0" IX4 OR EX3 GREATER TRAN 4' D', BUT 2X4 GREATER TRAN 11' 6" 2.5X4 + REFER TO COUMON TRUSS DESIGN FOR PEAK, SPIZE, AND BEEL PLATES.	DUTLINGERS WITH E O OVERHANG, OR 12" PUTWOOD OVERHANG. ATLAGE EACH "L' BRACE WITH 104 NAUS. * FOR (1) "L' BRACES SPACE NAUS AT 2" O.C. IN 16" END ZONES AND 4" O.C. HETMEN ZONES. ** FOR (2) "L' BRACES: FRACE NAUS AT 3" O.C. IN 16" END ZONES AND 6" O.C. HETMEN ZONES. "L" BRACENG MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.	PROVIDE UPLAT CONNECTIONS FUR 100 FLF OVER CONTINUOUS BEARING (5 PSF 10 DEAD LOAD). CABLE END SUPPORTS LOAD FROM 4: 0"	GABLE TRUSS DETAIL NOTES:		N PINE DOUG	GROUP	D DARSO	11 / 42 STANDARD 12 / 43 STOD	BRACING GROUP SPECIES AND GRADES: GROUP A: SPENICE-PINE-WE HEV-PIP	
	REF ASCET-02-GAB13030 DATE 11/28/03 DWG mysk syd dable so' e ni	PIATE SIZES NO SPICE IX4 OR EX3 BUT ZX4 2.5X4 2.5X4 7.5X4 7.5X4 7.5X4 7.5X4 7.5X4	THE LOW LANDS ALTE HOME WALLS ALTE HOME ALTE HOME ALTER B. O.C. BELT MINITAL OF BE	PER TO DEAL	ETAIL NO	#22	DOUGLAS FIR-LAR	P B.	STANDARD	#2 STANDARD	P A:	

BOT CHORD CHORD WEBS 2X4 2X4 品品品 BETTER BETTER

PIGGYBACK DETAIL

TYPE

SPANS

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5

30

4

88

52

2.5X4

2.6X4

5X8

5X6

BX6 3X5 REFER TO SEALED DESIGN FOR DASHED PLATES.

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.

TOP AND BOTTOM CHORD SPLICES MUST BE STAGGERED SO THAT ONE SPLICE IS NOT DIRECTLY OVER ANOTHER.

PIGGYBACK BOTTOM CHORD MAY BE OMITTED. TRUSS TOP CHORD WITH 1.5X3 PLATE. ATTACH VERTICAL WEBS TO

ATTACH PURLINS TO TOP OF FLAT TOP CHORD. IF PIGGYBACK IS SOLID LUMBER OR THE BOTTOM CHORD IS OMITTED, PURLINS MAY BE APPLIED HENEATH THE TOP CHORD OF SUPPORTING TRUSS.

REFER TO ENGINEER'S SEALED DESIGN FOR REQUIRED PURLIN SPACING.

THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:
110 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG,
LOCATED ANYWHERE IN ROOF, 1 MI FROM COAST
CAT L EXP C. WIND TO DL=5 PSF, WIND BC DL=5 PSF

110 MPH WIND, 30' MBAN HGT, FEG ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF WIND TO DL-5 PSF, WIND BC DL-5 PSF

HIND TO DL=5 F O MEAN HGT, ASCE 7-02, ANYWHERE IN ROOF, CAT II, PSF, WIND HC DL=6 PSF EXP. C.

H

AXB

OR 3X6 TRULOX AT 4'

DC,

Ħ 0 H >

500

EXG. **4X8** 284

1.5X4 **5X**6

1.5X4

1.5X4 **BX**8

FRONT FACE (B,*) PLATES MAY BE OFFSET FROM BACK FACE PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX. LOCATION IS
ACCEPTABLE XX \ \ \ \ 12 20' FLAT TOP CHORD MAX SPAN E В ᇜ TY Z Ħ SPLICE 品 MAX SIZE OF ZXIZ 独 TYP. D-SPLICE

NO BRACING NO BRACING 1x4 "T' BRACE. AEMBER. OR BE AEMBER. ATA 2x4 "F BRACE. MEMBER. OR BE MEMBER. OR BE	WEB BRACING CEART NO BRACING NO BRACING NO BRACING NO BRACING NO BRACING NAMEWER OR BETTER, AND A MEMBER OR BETTER OR BETTER MEMBER OR	NO BRACING CHART NO BRACING NO BRACING NO BRACING NO BRACING NO BRACING NO BRACING NAMEMER. OR HETTER. AND MEMBER. ATTACH WITH BE ZX4 "T" BRACE. SAME GR MEMBER. OR BETTER. AND MEMBER. ATTACH WITH 16	10, J	7'9"	0' TK	WEB [
TIACES.	RACING CEART REQUIRED ER CE. SAME GRAI LETTER, AND 8	RACING CHART REQUIRED BRACING CE. SAME GRADE, SP HETTER, AND 80% LE THACH WITH 94 NAILS LGE. SAME GRADE, SP HETTER, AND 80% LE HETTER, AND 80% LA JTACH WITH 164 NAILS	10' TO 14'	7'9" TO 10'	7'9"	ENGTH	
TIACES.	RACING CEART REQUIRED ER CE. SAME GRAI LETTER, AND 8	RACING CHART REQUIRED BRACING CE. SAME GRADE, SP HETTER, AND 80% LE THACH WITH 94 NAILS LGE. SAME GRADE, SP HETTER, AND 80% LE HETTER, AND 80% LA JTACH WITH 164 NAILS	MEMBER.	1x4 "T" MEMBER. MEMBER.	NO BRAC		WE
	BRAID 8d	FRACING FRADE, SPID 80% LE 8d NAILS FRADE, SPID 80% LE 16d NAILS	DRACE. SA OR HETTER ATTACH W	BRACE. SAI OR HETTER ATTACH W	ING	REQU	B BRACING

ATTACH THULOX PLATES WITH (6) 0.120 X 1.975" NAILS, (EQUAL, PER PACE PER PLY. (4) NAILS IN EACH MEMBER BE CONNECTED. REFER TO DRAWING 160 TL FOR THULOX INFORMATION.

10R

• • • •)(ATTACH TEETH TO THE PIGGYBACK AT THE TIME FABRICATION. ATTACH TO SUPPORTING TRUSS W (4) 0.120 X 1.375 NAILS PER FACE PER PLY. PIGGYBACK SPECIAL PLATE TO EACH TRUSS FACE SPACE 4 OC OR LESS.	* PIGGYBACK SPECIAL PLATE
	a Č	۵	APPLY APPLY	
-	žų,	0.0		
		• • •		H TEETH TO THE PIGGYBACK AT THE TIME OF ANTION. ATTACH TO SUPPORTING TRUSS WITH 120" X 1.375". NAILS PER FACE PER PLY. APPLY BACK SPECIAL PLATE TO EACH TRUSS FACE AND 4" OC OR LESS.

a

a a D C a

1440 SW 4th AFENUE US LEE'S 1.33 DUR. MAX LOADING 55 PSF AT 33 DUR. FAC. REF DRWG MITEK STD DATE 09/12/07 PIGGYBACK PIGG

THIS DRAWING REPLACES DRAWINGS 634,016 634,017 & 847,045

CONS.

1.15 1.25 DUR. 47 PSF 15 DUR. 50 PSF FAC. AT FAC. -ENG H

NO. 44869

STATE OF

REVIEWED

By julius lee at 11:59 am, Jun 11, 2008

No: 34868 STATE OF FLORIDA

SPACING

TOE-NAIL DETAIL

TOE-NAILS TO BE DRIVEN AT AN ANGLE OF APPROXIMATELY THIRTY DEGREES WITH THE PIECE AND STARTED APPROXIMATELY ONE-THIRD THE LENGTH OF THE NAIL FROM THE END OF THE MEMBER.

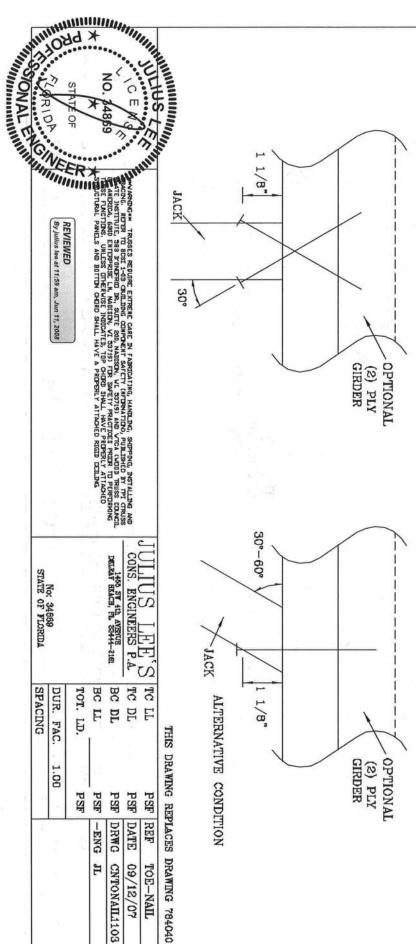
PER ANSI/AF&PA NDS-2001 SECTION 12.4.1 — EDGE DISTANCE, END DISTANCE, SPACING: "EDGE DISTANCES, END DISTANCES AND SPACINGS FOR NAILS AND SPIKES SHALL BE SUFFICIENT TO PREVENT SPLITTING OF THE WOOD."

THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES, AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

FRAMING INTO A SINGLE OR DOUBLE PLY SUPPORTING GIRDER.

MAXIMUM VERTICAL RESISTANCE OF 16d (0.162"X3.5") COMMON TOE-NAILS

4 394# 511# 351#		3 296# 383# 271#	2 197# 256# 181#	TOE-NAILS 1 PLY 2 PLIES 1 PLY	SOUTHERN PINE
585#	468#	351#	234#	2 PLIES	DOUGLAS FIR-LARCH
390#	312#	234#	156#	1 PLY	
507#	406#	304#	203#	2 PLIES	HEM-FIR
384#	307#	230#	154#	1 PLY	SPRUCE
496#	397#	298#	189#	2 PLIES	SPRUCE PINE FIR



WE TRUSSES REDURE EXTREME CARE IN FARRICATING, HANDLING, SMEPPING, INSTALLING AND RETER TO BEST 1-43 CMILING COMPONENT SAFETY (MEDINATION, PULLSHED BY THE CRUSS EXTITUTE, THE DYNORRHID IN, SATTE 260, MADISON, VI. 53719; AND VICA KINDID HUSS COLVELL (CA, 6300 ENITEPRISE LM, MADISON, VI. 53719; AND VICA KINDID HUSS COLVEL (CA, 6300 ENITEPRISE LM, MADISON, VI. 750719; TOR SAFETY PRACIFICES PRICE TO PERCONNING MOLIONS, UNILESS OTHERWISE INDICATED, TOP CHEED SHALL HAVE PEPERLY ATTOMED CELLING SALE PARLES, AND BOTTON CHEED SHALL HAVE A PREPERLY ATTACHED REGID CELLING.

C CONS.

DELPAY BEACH, FL SS444-2161

BC LL BC DL

PSF

DRWG DATE

CNTONAIL1103 09/12/07 TOE-NAIL

-ENG

IL

PSF

No: 34889 STATE OF FLORIDA

SPACING DUR. FAC. TOT. LD.

1.00

PSF PSF

By julius lee at 11:59 am, Jun 11, 2008

REVIEWED

TRULOX CONNECTION

II GAUGE (0.120" X 1.575") NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. FILL ROWS COMPLETELY WHERE SHOWN (\(\phi \)).

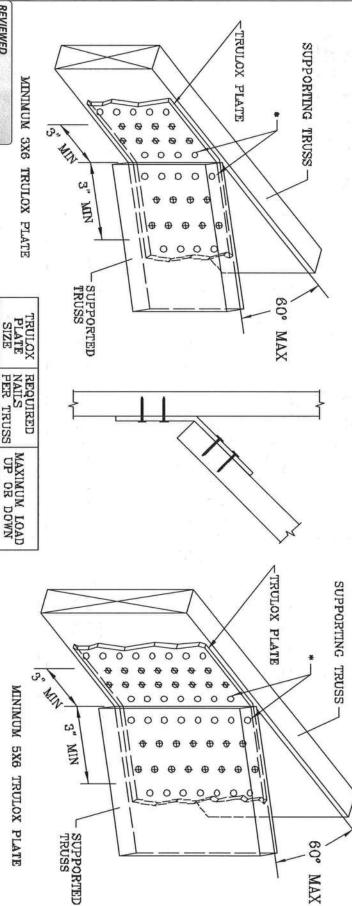
NAILS MAY BE OMITTED FROM THESE ROWS.

THIS DETAIL MAY BE USED WITH SO. PINE. DOUGLAS-FIR OR HEM-FIR CHORDS WITH A MINIMUM 1.00 DURATION OF LOAD OR SPRUCE-PINE-FIR CHORDS WITH A MINIMUM 1.15 DURATION OF LOAD. CHORD SIZE OF BOTH TRUSSES MUST DURATION OF LOAD. CHORD SIZE OF EXCEED THE TRULOX PLATE WIDTH.

> TRULOX PLATE BETWEEN NAIL IS CENTERED ON THE CHORDS AND BENT ROWS.

REFER TO ENGINEER'S SEALED DESIGN REFERENCING INFORMATION NOT SHOWN. THIS DETAIL FOR LUMBER, PLATES, AND OTHER

MAX



NO. 44869

REVIEWED

MINIMUM 3X6 TRULOX PLATE

5X6 3X6

15 9

#086 350#

ULIUS LEE'S PA.

1,154,844

THIS DRAWING REPLACES DRAWINGS 1,158,989

1,158,989/R

1,152,217 1,152,017 1,159,154 & 1,151,524

DATE DRWG -ENG

TRULOX

I

CNTRULOX1103 11/26/03

DELEVAL BEYOR' 11" SEVERE STORE

No: 34869 STATE OF FLORIDA

PER TRUSS

MAXIMUM LOAD UP OR DOWN

MINIMUM 5X6 TRULOX PLATE

MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

Maximum Uniform Load Applied to Either Outside Member (PLF)

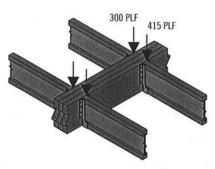
				1. 1000 1000 23	C	onnector Pattern		Service Avenue
			Assembly A	Assembly B	Assembly C	Assembly D	Assembly E	Assembly F
Connector Type	Number of Rows	Connector On-Center Spacing	2" 134"	13/2	11/1 31/2	13/4" 31/4" 134"	31/2"	14
			31/2" 2-ply	51/4" 3-ply	51/4" 2-ply	7" 3-ply	7" 2-ply	7" 4-ply
10d (0.128" x 3")	2	12"	370	280	280	245	14726	A PART OF
Nail ⁽¹⁾	3	12"	555	415	415	370	"这些人也代表更为这种的社会	机构与1000000000000000000000000000000000000
1/2" A307		24"	505	380	520	465	860	340
Through Bolts(2)(4)	2	19.2"	635	475	655	580	1,075	425
		16"	760	570	785	695	1,290	505
PDC 178 - 0178/0		24"	680	510	510	455	经验证的	
SDS 1/4" x 31/2"(4)	2	19.2° 16"	850	640	640 765	565 680		Manager of the second
		24"	1,020	765	/60	455	465	455
SDS 1/4" x 6"(3)(4)	2	19.2"		Test Manual Consists	CONCERNS (MAIN	565	580	565
3D3 74 X 0	4	16"		DESCRIPTION OF THE PARTY OF THE	DESCRIPTION OF THE PARTY OF THE	680	695	680
		24"	480	360	360	320	BECKER MODERNA SEAT	
USP WS35 (4)	2	19.2"	600	450	450	400	Delines de la marchia del marchi	STATE OF THE PARTY
		16"	715	540	540	480		
	. 100 200	24"				350	525	350
USP WS6 (3)(4)	2	19.2"			TO STORE THE REAL PROPERTY.	440	660	440
		16"		OTATA NATIONAL STATE	Call Indicate Participate	525	790	525
		24"	635	475	475	425		
33/k" TrussLok ⁽⁴⁾	2	19.2"	795	595	595	530	F (2)	faith and face in
Hussrok.		16"	955	715	715	635		Maria Maria Angelo
		24"		500	500	445	480	445
5" TrussLok(4)	2	19.2"		625	625	555	600	555
Husseun		16"		750	750	665	725	665
03/11		24"				445	620	445
63/4" TrussLok(4)	2	19.2"				555	770	555
		16"		建设建设设施		665	925	665

- (1) Nailed connection values may be doubled for 6" on-center or tripled for 4" on-center nail spacing.
- (2) Washers required. Bolt holes to be 9/16" maximum.
- (3) 6" SDS or WS screws can be used with Parallam® PSL and Microllam® LVL, but are not recommended for TimberStrand® LSL.
- (4) 24" on-center bolted and screwed connection values may be doubled for 12" on-center spacing.

General Notes

- Connections are based on NDS® 2005 or manufacturer's code report.
- Use specific gravity of 0.5 when designing lateral connections.
- Values listed are for 100% stress level. Increase 15% for snow-loaded roof conditions or 25% for non-snow roof conditions, where code allows.
- Bold Italic cells indicate Connector Pattern must be installed on both sides.
 Stagger fasteners on opposite side of beam by ½ the required Connector
 Snacing
- Verify adequacy of beam in allowable load tables on pages 16-33.
- 7" wide beams should be side-loaded only when loads are applied to both sides
 of the members (to minimize rotation).
- Minimum end distance for bolts and screws is 6".
- Beams wider than 7" require special consideration by the design professional.

Uniform Load Design Example



First, check the allowable load tables on pages 16–33 to verify that three pieces can carry the total load of 715 plf with proper live load deflection criteria. Maximum load applied to either outside member is 415 plf. For a 3-ply 134" assembly, two rows of 10d (0.128" x 3") nails at 12" on-center is good for only 280 plf. Therefore, use three rows of 10d (0.128" x 3") nails at 12" on-center (good for 415 plf).

Alternates

Two rows of 1/2" bolts or SDS 1/4" x 31/2" screws at 19.2" on-center.